

Student Name:

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1- To which modulation technique this rule is applied

- a. FSK
- ☒ b. ASK
- c. AM
- d. FM

$$s(t) = \begin{cases} A \cdot \sin(2\pi ft), & \text{binary 1} \\ 0 & \text{binary 0} \end{cases}$$

2- In digital-to-digital modulation one of the characteristics is changed according to the

- a. Modulating signal, modulated signal
- b. Modulated signal, modulating signal
- c. Carrier signal, modulated signal
- ☒ d. Carrier signal, modulating signal

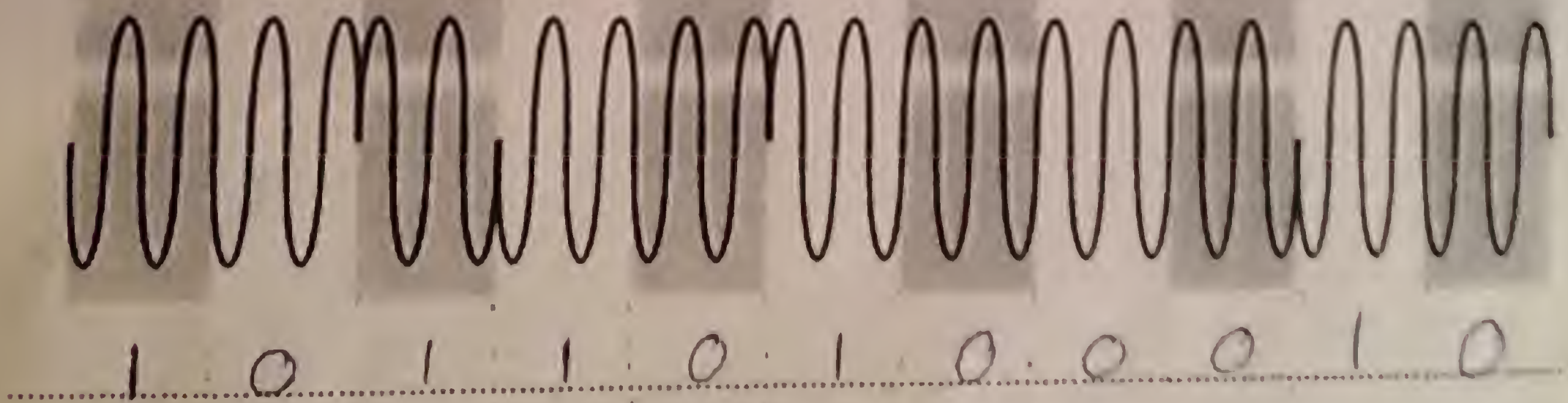
3- For an analog signal, with range of frequencies between 4000 and 8000 Hz, to be encoded into digital using PCM, the required sampling rate is Sample per second.

- ☒ a. 6000
- b. 8000
- c. 1200
- d. 1600

4- A PCM system with 32 quantization levels is having bits per PAM.

- a. Three
- b. Four
- ☒ c. Five
- d. Six

5- Consider the following Differential PSK, if the first bit is binary 1, find out the full bit stream



6- Re-represent the string retrieved in question 5 above in BASK

